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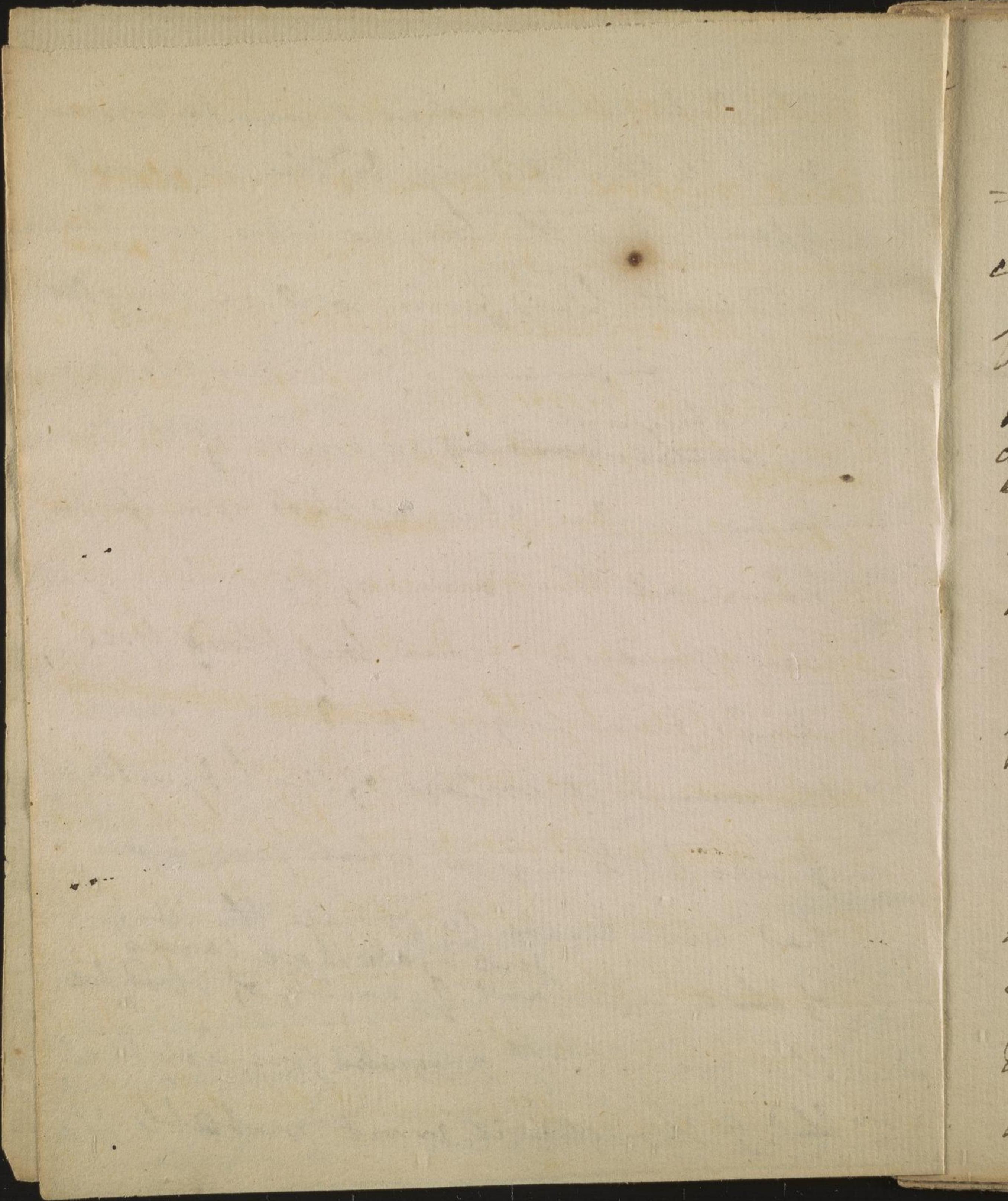
We come now to treat of the aphæbic plagues of man. Before I enter upon this subject I shall deliver some remarks upon the brain and its appendages which are partly of a physiological and partly of a pathological & practical nature.

I taught you in our physiology ~~that~~ ^{the} the System in the early part of our course ~~is~~ ^{to} be concerned in ~~treating~~ ^{the} upon the circulation of the blood, I said that the ~~actions~~ ^{drinker} of our bodies had guarded against ~~the~~ in-ordinate or tumultuous motions of the blood by means of the System when the blood vessels were unusually excited through out the whole system - by the Thymus gland where it was ^{determined} in ~~the~~ a small quantity to the lungs, by the

the extirpation of the
are experienced

✓ I formerly supposed from a fact so made
upon the Thyroid glands by Mr Cooper pro-
-ducing fatuity in Dogs, that this gland was
- used to arrest and detain the blood when too
- forcibly determined to the brain. But I now
~~supposition is this of Cooper being erroneous~~
to be from the small ^{aspects} size of that gland,
and from ~~it~~ any not admitting the
inferences of Mr Cooper's ~~fact~~ experiments
I have rejected that hypothesis. Dr Reue
in his essay on Cretinism published in the
5th vol. of the Edinburgh Medical and Surgical journal
lets us that in those countries where Cretins
are most numerous, many people of sound
vigorous minds have Bronchitis, and that the
combination of Bronchitis and ^{Idiots} Cretinism
is altogether accidental. The Thyroid gland,
believe arrests nervous determinations to the
brain only, but never arterial. Its use I believe
is chiefly as a waste gate to the larynx in
singing and speaking.

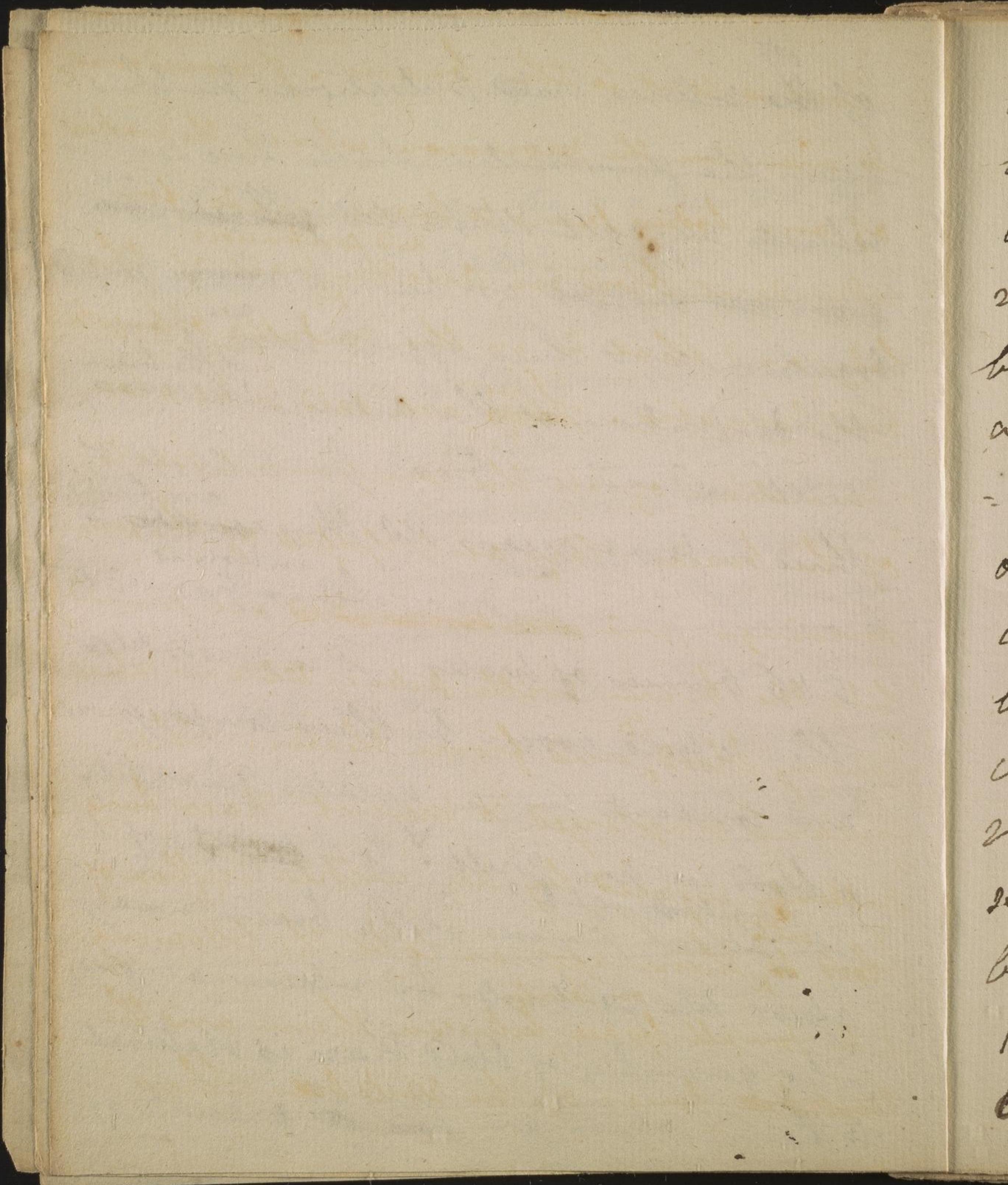
Glandules renales when it was too vigorously sent to the kidneys, & ^{by} the Thyroid Gland when the larynx was over distended with blood from loud, or long speaking, or singing. In contemplating the frequent ~~danger~~ ^V exposure of the brain to an undue flux of blood from frens, from all the causes of hypotaxis, pulmonary hemorrhaps, from long blood speaking, from anger, and even from the recumbent posture of the body in sleep, I was led to inquire what provision had been made to obviate the effects sent by all those causes of a redundant quantity of blood to the brain. I suggested formerly that I thought it most probable the



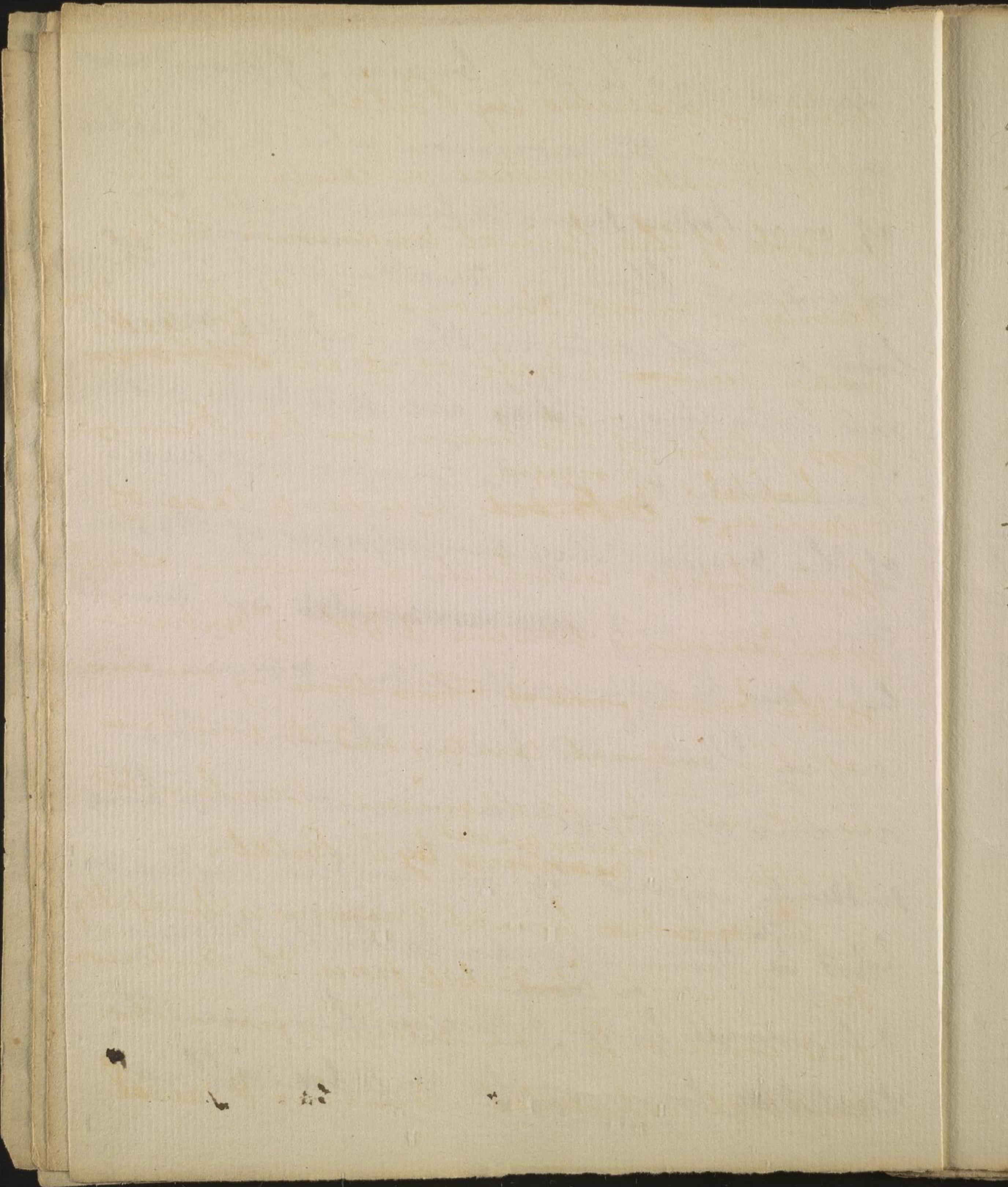
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Ventricles of the brain served this important purpose. From a more close examination of this opinion, and from its connection with the means of obviating disease from the same causes in a continuous ~~another~~ part of the body I have no doubt of its correctness. ~~For~~ The lungs & the liver and the pancreas obviate the ill effects of being over distended with blood for a while, by their ~~being~~ ~~so~~ ~~capable~~ giving way as it were, that is by ~~their~~ increasing in their bulk, but this can never take place in the brain. ~~It has seen~~ The Cranium prevents its dilatation; and this it is said to such a degree as even to prevent the elevation

✓ Indeed there can be no doubt of
this being the case, Baghi tells us
he found $\frac{1}{2}$ of coagulated blood in
the Ventricle of the famous Anatomist
Malpighi who died of an apoplexy.
Allowing the blood vessels to be in part
emptied of their blood to admit of this
large accumulation of it in the Ventricle
still it shows that they are capa-
ble by compression of affording room
for more than five or six ounces of
redundant blood.

of the arteries into pulsation. In this
case, the ventricles which those cavities
which we call Ventricle ~~which are~~ give way
~~and~~ or become ~~more~~ rapid
together, and thus afford more ^{worm} for
the distention of the arteries & veins,
with redundant blood. In a child of
three or four years old, they ^{are found} ~~contain~~ to
contain in a hydrocephalus from 3 to
5 & 6 drams of water. It is probable
they afford room by their compression
and contact for a greater quantity
of blood in an adult. It is ~~im~~ possible
longitudinal
the lateral sinuses of the brain may
assist the ventricles by retaining a greater
quantity of blood than is natural
to them, when an ^{unusual} ~~excessive~~ quantity of



Blood is sent to the brain. I proceed next to mention the provision which the maker of our bodies seems to have made for redundant blood in another part of the body, and that is in the medulla oblongata and spinalis. ~~These~~ are said to be a combination of all the component parts of the brain. They are composed of the same coverings, and ~~and~~ are provided like the brain with arteries & veins which convey blood ^{to} and from them. The means employed to prevent their being suddenly injured by an undue influx of blood ^{into} them appears to be the following. 1 A small space ^{or cavity} between them and the ~~osteal~~ bones of the vertebral. This



cavity is described by Portal

2 a small aperture or cavity in the middle of the spinal marrow. This cavity is most obvious in children. You may see in a draft of it in ~~gall~~ ^{Dr gall}

~~loss~~ plates of the brain in the Pennsyl-
-vania ^{Morgagni} hospital.

-varia - ~~Debtor~~ describes a case of
Spina bifida in which a communication
was discovered between it & the 3rd ventricle
of the brain ~~and~~ ^{Crethos quoted} ~~Thalamus~~ by means
of this internal cavity, and its existence
is admitted by Pietroboni. Bouthier &
Malpighi ~~according~~ ^{Crethos quoted} by Dr Portal.

3 the ~~various~~ spinal marrow is plentifully
supplied with blood vessels from the anterior
and posterior spinal arteries & from the
vertebral, intercostal, lumbar & sacral

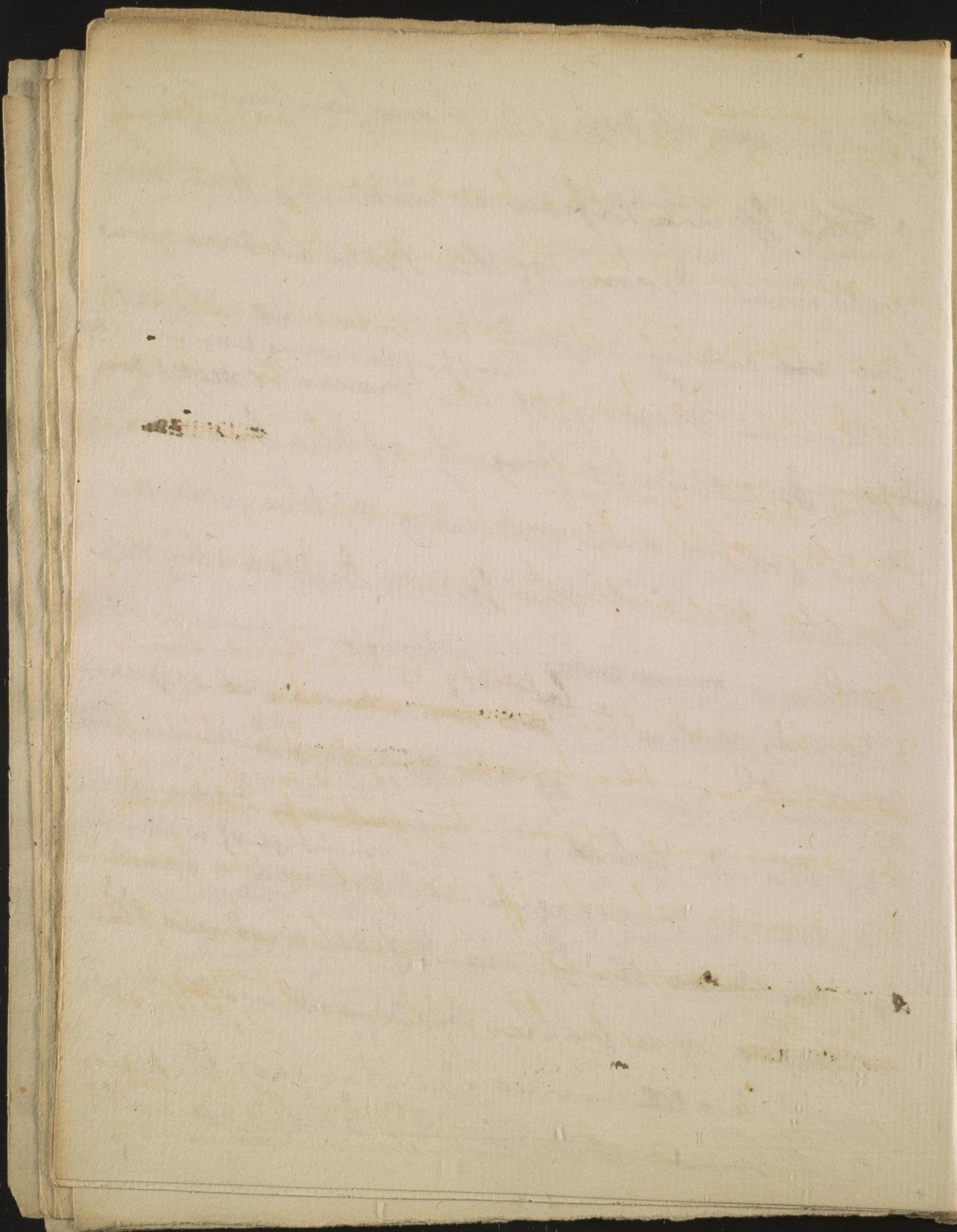
Dr Portal mentions two striking
facts in support of the opinions I have
advanced. 1 In a child affected with
Spina bifida he distinctly saw the tumor
enlarged in every respiration, and
bowed in every exhalation. This
child died. He found after death a cavity
large en't to admit a gril' which
communicated with the 3rd ventricle
of the brain. 2 He opened & insp'led the
vertebrae of several dogs & cats & distinctly
saw the Foramen Spinalis enlarged &
bowed with each inspiration, and
exhalation. These motions extended
only to 3rd and 4th ~~cervical~~ cervical
vertebrae in both cases. Vol: IV. p: 66.

arteries. The veins which return this
blood which is carried by them are
4 in number and larger than the
arteries - ~~one of them~~ ^{one of them is anterior, another} ~~one of them~~ ^{one of them} posterior,
and two are lateral. They are so large
Portal says that ^{they} might be called a
sinus. These veins probably serve by
their distension ~~to~~ aid the two cavities
I have mentioned in reliving the
medullas oblongatae & spinalis from the
ill effects of redundant blood when
thrown upon them. ✓

The diseases of the ~~medullas~~ spinal
marrow, or the brain in the vertebral
~~ossicles~~ favor the theory I have
delivered of the uses of the cavities &c

~~V and 2^{by} the water in the Spinal Bifida protrudes the coats and covers the coats of the spinal marrow, whereas the water in the~~

~~Spina Bifida~~ Spina Bifida is it which have been mentioned.
The Spina Bifida is nothing but an external drooping of the spinal marrow in so every respect similar to the external drooping of the brain, except ^{in the following particular} the external drooping of the brain is induced by an opening of the sutures of the brain - the Spina Bifida, by the absence ~~or~~ of a spinal process of the Vertebrae. ^{but it} Sometimes it appears with a gaping ~~or~~ or opening between two of the Vertebrae, — There is a case upon record by Morgagni in which a puncture of ~~the~~ the Spina Bifida produced the collapse of a brain distended with Hydrocephalus ^{or} Cæsternus. In this case the water ^{or} a severe pain in the back generally

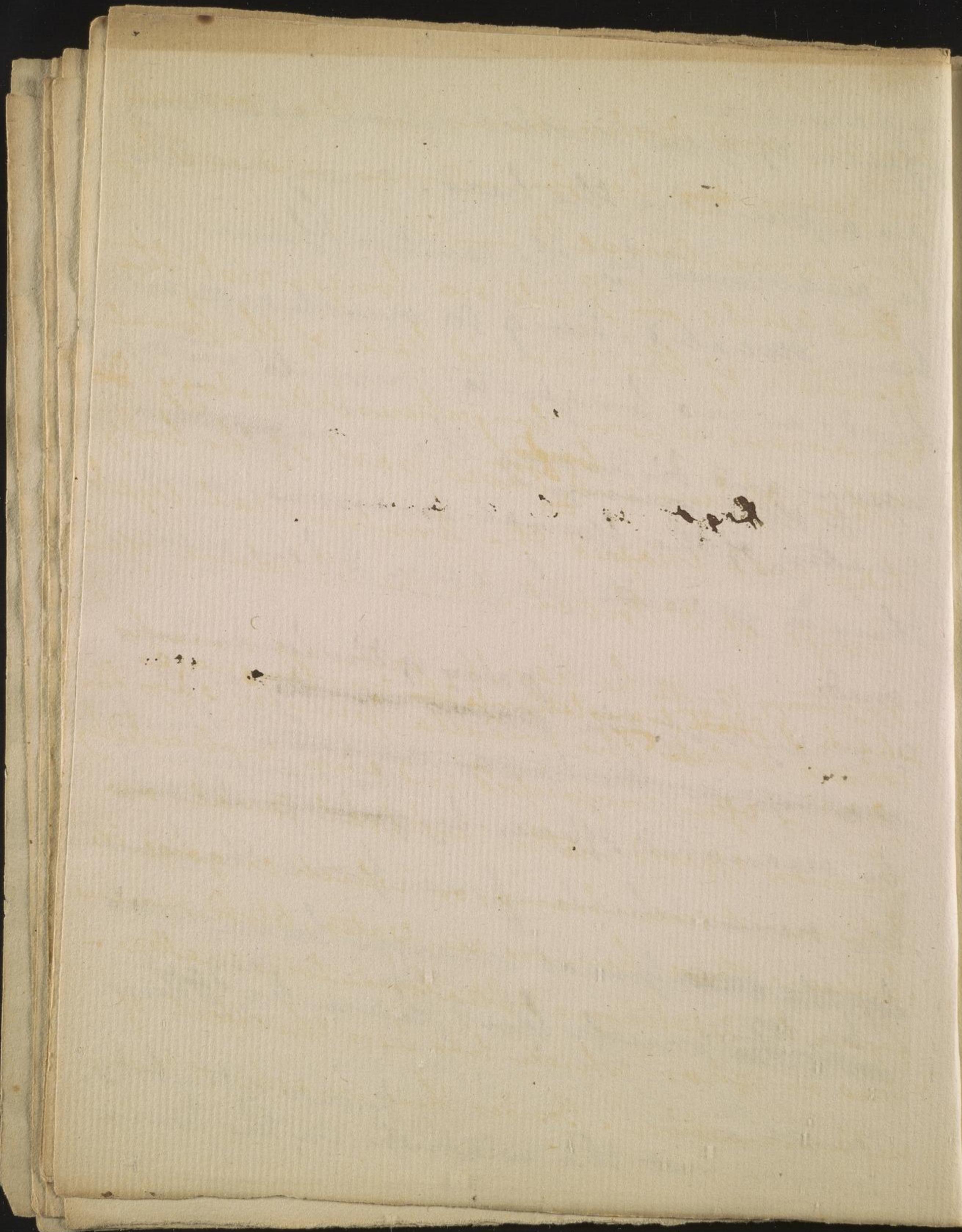


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accompanies
fevers of great morbid action as certainly
as a pain in the head. may not this
be occasioned by the cavities & sinews I
have described, being so overcharged with
blood, as no longer to prevent its palsey
upon and distending the ~~inner~~
& other coverings
matter of the spinal marrow, and
thus to ~~not~~ excite the pain I have mention-
ed.

3 may not the ~~palsey~~
~~inflammation~~ and
~~excessive~~ of the bowels
be occasioned often by ~~the~~
the nerves which issue from the spine
by the ~~and~~ spinal marrow being pressed
~~by~~ ^{any} ~~too~~ much blood, than by ~~other~~
course?

4 may not the weakness in the lower
trunk of the body,

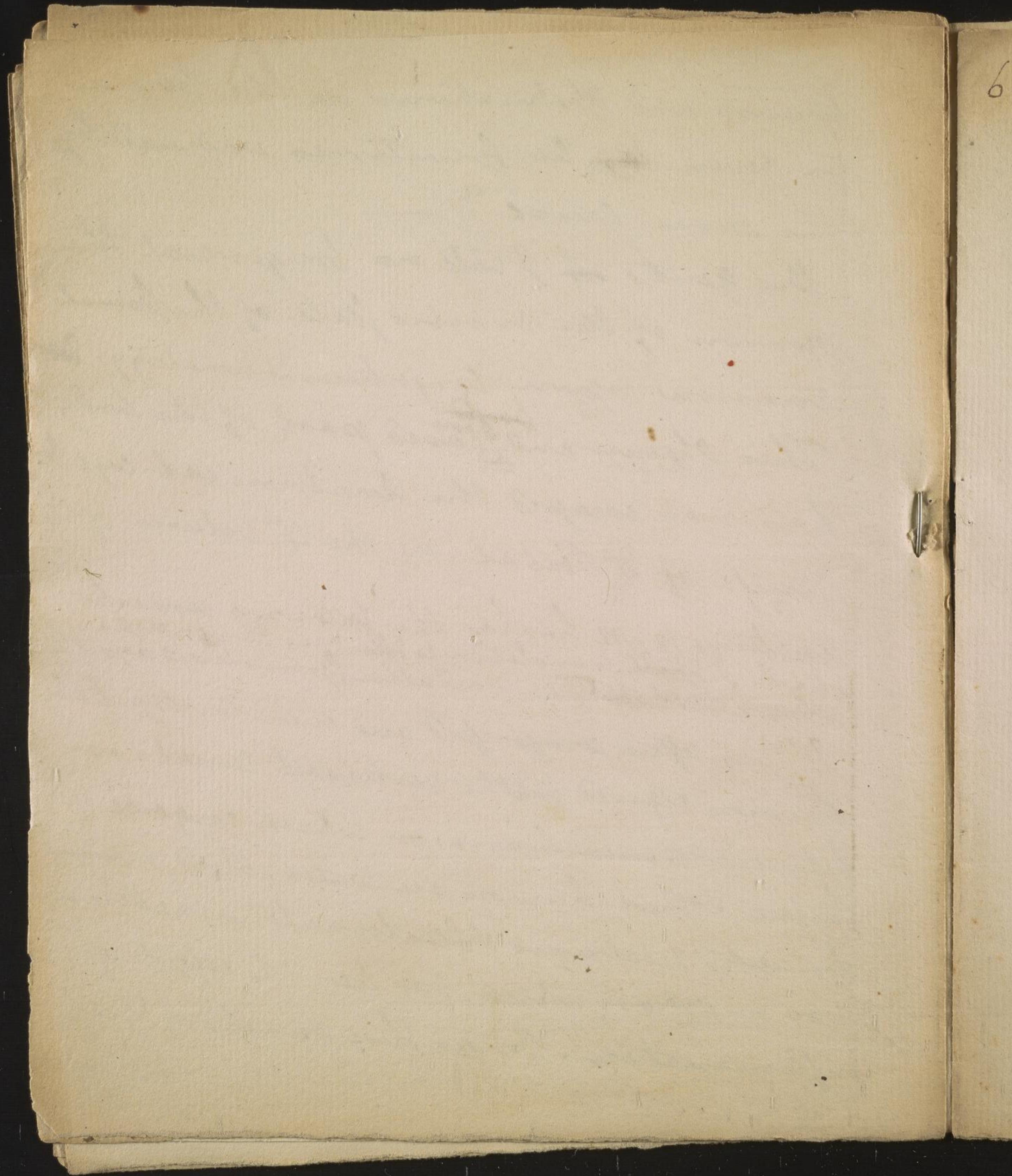


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hurts, and Obstructions in the bowels
in fures ~~to~~ be sometimes induced by
the same cause? —

Butgent! If I will no longer rest the
opinion of the morbid state of the spinal
marrow upon conjecture & analogy. ~~See~~
This obscure and ~~dark~~ ^{dark} part of the body
has not escaped the anatomical eye &
knife of Dr Portal. In the 4th volume of his

Anatomy p: 112 he has the following remarks
which I ~~have~~ translated ~~into~~ ^{our} language.
~~which I shall~~ The medulla spinaris says the
D²) is often compressed and even contracted by
humors effused into the vertebral canal, or
between its membranes, on which engorge its
surface. These humors are water, blood, mucus
lymph, gelatinous & steatornaceous matter &
& pus or ichor which has been the effect of
inflammation. Besides these marks of disease



the Dr adds, "induration, softness, inflammation
suppuration and Ulceration have been found
in the medulla spinalis, and there is no
doubt but that like the brain it is capable
of being affected by Concupison." He then
concludes by saying "in a word, the diseases
of the medulla spinalis have a great
affinity with the diseases of the brain,
and are more common than is generally
supposed". ~~In addition to this however~~

~~the~~ The practical inference from all the
facts and opinions that have been ~~delivered~~
are, the Receptivity and Safety of the brain
from redundant blood. Were we to live
agreeably to reason, the vessels and ~~the~~
size of the brain would be sufficient
to ~~reduce~~ prevent injury to it in common

3 I treating upon pulmonary con-
sumption I advised the application
of Blisters between the shoulders along
the cervical & ~~dorsal~~ Dorsal Vertebral. I
have repeatedly seen them do more
service when applied there, than to the
sides or breast. may not the reason why
of this be - the blisters bring congestion
in the spinal Vertebral which supply
a portion of nerves which unite with
the par vagum & great sympathetic nerves
which ~~sup~~ are distributed to the Thoracic
& abdominal viscera?

4 may not the efficacy of a Balsam
~~pitite~~ plaster to ~~the~~ ^{the} external parts of
the cervical and dorsal Vertebral, and
of other stimulating applications to the
same parts, be owing to those in the Hooping

less, but the pursuits, pleasures & vices of
civilized life, render them too scanty for
that purpose. The quantity of blood sent
to the brain requires the aid of the heart to
assist the ventricles and lateral sinews in
the uses I have ascribed to him.

✓ From the ^{use of the} waste cavities which I have
~~seen~~ described in the spinal marrow, it
is alike obvious that many diseases
in the nervous muscular parts of the
body which are supplied with nerves
from the spinal marrow, are, from the
inability of those cavities to afford ~~shelter~~
room for all the blood that is sent to
them, induced by ^{an excess of} ~~too much~~ ~~fever~~ ~~blood~~
in the spinal marrow, and that they
require, especially in their first stage,
remedies, the reverse of what are too often

~~Dough - by owing to ~~various~~ other
inducing such actions in the spinal
masses, has,~~

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✓ This, - from the sameness of its
cause ~~accord~~ with Hydrocephalus
internus -

prescribed for them; I mean depicting all
medicis. I shall illustrate ~~what I have~~
~~been accustomed to a single disease~~ what I
have ~~been accustomed to a single disease~~ of a single disease.

mean by a reference of
I have said the Hydrocephalus internum is
~~caused by~~ ^{so much} the Hydrocephalus internum is
so induced by ~~excretion of water to the blood~~
being ~~secreted to~~ sent to the ~~blood~~
brain as to produce a passage of its serous
parts into the ventricles, or by the force
of the blood forcing open the or widening the
~~sutures~~ and ~~filling the~~ therefore
sutures and ~~filling the~~ extremes.

~~contains~~ its cavities, while
Hydro vertebralis in turn, the spine
Bifidus which is produced by water forcing its

which are the effects of
fever. I have called them aphatic
States of fever. —

way outwards by the destruction of
a spinal process, or by insinuating
itself between two of the vertebrae ~~the~~
~~it~~ might be called a Hydrovertebra-

-lis externus. ~~the only difference between~~
I shall apply the facts & principles

I have thus delivered to several other

diseases in the sequel of our lectures.

Wicks and kindly
However ~~great~~ ~~the~~ ~~peculiarities~~ ~~which~~

the peculiarities in the brain I have said
noticed appear to be intended to prevent its
diseases, from many circumstances they
are not always sufficient in common
with the Spleen, Thymus & Thyroid glands
& glandular vessels for that purpose. The

~~most~~ diseases of the brain from an
undue determination of blood to it are
numerous. At present, I shall ~~take~~
confine myself only to these diseases V

